DELTA P BY ECE MEDICAL

PSA - OXYGEN CONCENTRATORS
OXGEN 3000 SERIES



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ADERENTE AD ASSOLOMBARDA CONFINDUSTRIA MILANO, MONZA E BRIANZA, LODI

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ECE Healthcare

Ohio Medical

THERAPY EQUIPMENT

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PSA - OXYGEN CONCENTRATORS - OXGEN 3000 SERIES

WHO WE ARE

Deltap is a leading engineer, manufacturer and marketer of innovative, performing, modular and first-class quality oxygen concentrators, offering one-stop-shop customer experience for ultra safe, reliable and state-of-the-art oxygen concentrators and plants as well as related services and solutions for medical usage for hospital and clinic settings worldwide.

Delta p holds state of the art knowledge of PSA technology and its development in the marketplace, with a declared mission to be the supplier of choice for providing innovative (performance and quality) and cost effective onsite oxygen concentrator solutions worldwide.

SPECIALISTS IN MEDICAL GASES FIELD

Having had access to more than 35 years of business experience in the field of high pressure gases for medicinal usage, Deltap can deliver the right solution for any demand of oxygen concentrators and plant. Our oxygen concentrators feature the following exclusive characteristics:

- End-to-end operating software monitoring the entire supply system, including reserve cylinders andtransducers monitoring oxygen quality throughout process
- Oxygen outlet pressure up to 7 bar, with no need of boosting capacity
- Automatic restart without human intervention
- All the tubing are in medical copper pipe and all the pneumatic valves are in bronze ensuring a bactericidalaction in accordance to medical standards

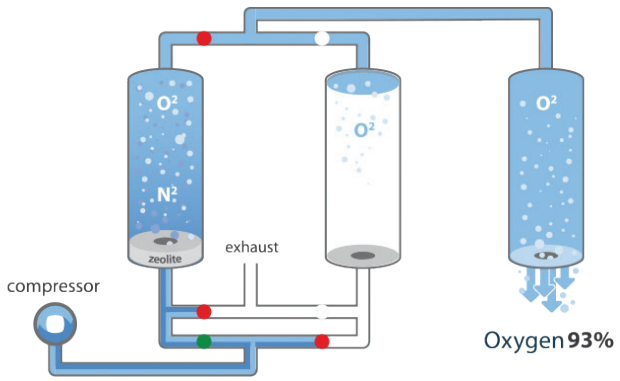
A BRIEF INTRODUCTION TO THE PRESENT INT'L REGULATORY SCENARIO

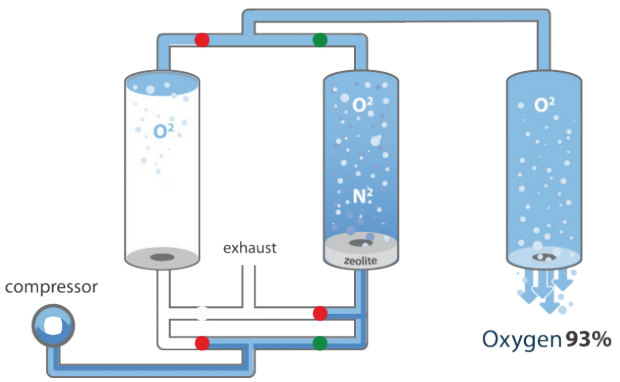
ISO 10083 (year 2006): reference standard for technical requirements of oxygen concentrators to be installed in centralized medical gas pipeline systems.

ISO 7396-1 (year 2007): reference standard for Medical Gas Pipeline Systems.
In April 2011 the monograph "Oxygen 93%" for medicinal use was published in the European Pharmacopoeia; afterward monograph "Oxygen 93" publication, ISO decided to revise the standard ISO 7396-1, to include ISO 10083 content.
ISO 7396-1 (year 2016): a revision of the reference standard for Medical Gas Pipeline Systems has included the sources of supply with PSA oxygen concentrators giving the technical requirements to install them in centralized medical gas pipeline systems and replacing the old ISO 10083 standard

PSA - OPERATION PRINCIPLES

The technology that Delta p utilizes is the PSA process (Pressure Swing Adsorption). It is the engine that drives the separation of oxygen from air, with a degree of purity over 93%. It is a purely physical process denominated adsorption. During the adsorption step, nitrogen is adsorbed at elevated pressure and oxygen is produced. During the regeneration step, nitrogen is desorbed via depressurization and the adsorbents are regenerated. In order to convert this batch process into a continuous process, Delta p uses two adsorbent vessels. As one is adsorbing, the other is regenerating and vice-versa.





BENEFITS OF DELTA P TECHNOLOGY

Delta p concentrators present the following benefits:

- **FACILITY OF USE:** the touch screen control panel is USER-FRIENDLY
- **EASY MAINTENANCE:** all the pneumatic connections are easy to maintain with simple replacement of componentsthanks to great accessibility of parts
- **COST SAVING:** PSA technology ensures a low cost uninterrupted production of oxygen for medicinal usage thanksto the following reasons:
  - the process of PSA is a simple filtration of air that is less expensive than the traditional cryogenic processesproduction and distribution
  - with this technology the cost of periodical cylinders replacement is eliminated
  - the periodical maintenance is limited to replacement of filters every 8000 hours of operation and periodicalinspection of others components.
- **COMPLETELY AUTONOMOUS SUPPLIES AND AVAILABILITY AT ANY TIME AND IN ANY QUANTITY.**
- **NO LOGISTIC ISSUES:** No storage – no transportation of cylinder and tanks are required
- **GREEN SOLUTION:** PSA technology is free from CO2 emissions and it does not require issue in disposal
- **LOW RISK:** if compared to use of high pressure oxygen cylinders

OXYGEN CONCENTRATORS - GENERAL DESCRIPTION

Delta p can supply a wide set of oxygen concentrators ensuring a continuous supply of oxygen 93 for medicinal usage, with flow rate from 1 Nm3/h to 86 Nm3/h.

Delta p concentrators are composed by two molecular sieves, contained in two metal columns that are mounted on a metal support panel. The production of oxygen 93 is ensured by a circuit of pneumatic valves controlled by a PLC. All the pneumatic connections are made by means of welding copper pipes in accordance to medical standards.

All our oxygen concentrators are supplied complete with, pressure gauges, pressure relief valves, oxygen pressure transducer. A touch screen control panel manages the whole process of production, monitoring a series of parameters and with the possibility to generate a series of alarm in case of emergency.

TOUCH SCREEN CONTROL PANEL

The whole system is managed by a touch screen control panel controlled by a **SIEMENS PLC** that controls the cycle of the oxygen production ensuring opening and closing of valves.

Two operation modes are available:

- **CONTINUOUS MODE: the oxygen production is continuous, autonomously from the user request**
- **ECO MODE: the oxygen production is suspended when there is not request from the user and it is restarted in case ofrequest, with a consequent energy saving.**

AUTO-RESTART SYSTEM: The control panel is equipped to ensure the automatic restart of system after a main power failure, in this way the continuity of supply is ensured in case of short-time power failures. (It is possible to disable this function on the control panel. In this case the restart will be made manually by the operator)
All our oxygen concentrators are supplied complete with an **O_2 PRESSURE TRANSDUCER**. It allows monitoring the pressure value of the O_2 product vessel that is displayed on the touch screen control panel.
The software is complying to IEC 62304 standard.

Two versions of control panel are available:

- **PSA - OXGEN 3000 - STANDARD VERSION**
- **PSA - OXGEN 3000 - TOP VERSION**

PSA - OXGEN 3000 - STANDARD VERSION

The **PSA - OXGEN 3000 STANDARD VERSION** is equipped to manage a reduced range of sensors to ensure the minimum controls of parameters required from ISO 7396-1 standard.

For the **STANDARD VERSION**, the control panel is suitable to manage the following analogue sensors **(supplied separately on request):**

- **% O_2 UNIT ANALYZER:** to monitor the %O_2 immediately downstream the concentrator unit
- **% O_2 SOURCE ANALYZER:** to monitor the %O_2 immediately downstream the source of supply
- **AIR VESSEL PRESSURE TRANSDUCER:** to monitor the Air vessel pressure
- **O_2 PRESSURE TRANSDUCER:** to monitor the O_2 vessel pressure
- **CO ANALYZER:** to monitor the CO concentration in the Oxygen produced
- The control panel is also suitable to manage the following other sensors coming from other components (when present) ofa full oxygen plant as following indicated:
- **SECONDARY SOURCE SENSOR:** to signal low pressure alarm of a secondary source (if present)
- **SECONDARY SOURCE SENSOR N.2:** to signal low pressure alarm of an additional secondary source (if present)
- **RESERVE SOURCE SENSOR:** to signal low pressure alarm of an emergency reserve source (if present)

PSA - OXGEN 3000 - TOP VERSION

The **PSA - OXGEN 3000 TOP VERSION** is equipped to manage an extended range of sensors . For the **TOP VERSION**, the control panel is suitable to manage the following analogue sensors **(supplied separately on request):**

- **% O_2 UNIT ANALYZER:** to monitor the %O_2 immediately downstream the concentrator unit
- **% O_2 SOURCE ANALYZER:** to monitor the %O_2 immediately downstream the source of supply
- **AIR VESSEL PRESSURE TRANSDUCER:** to monitor the Air vessel pressure
- **O2 PRESSURE TRANSDUCER:** to monitor the O_2 vessel pressure
- **CO ANALYZER:** to monitor the CO concentration in the Oxygen produced
- **AIR TEMPERATURE TRANSDUCER:** to monitor the Air inlet temperature
- **CO2 ANALYZER:** to monitor the CO_2 concentration in the Oxygen produced
- **DEW POINT SENSOR:** to monitor the O_2 dew point
- **MASS FLOW METER:** to monitor the O_2 flow rate

The control panel is also suitable to manage the following other sensors coming from other components (when present) ofa full oxygen plant as following indicated:

- **SECONDARY SOURCE SENSOR:** to signal low pressure alarm of a secondary source (if present)
- **SECONDARY SOURCE SENSOR N.2:** to signal low pressure alarm of an additional secondary source (if present)
- **RESERVE SOURCE SENSOR:** to signal low pressure alarm of an emergency reserve source (if present)
- **AIR COMPRESSOR SENSOR:** to signal anomaly of air compressor
- **AIR COMPRESSOR N.2 SENSOR (optional):** to signal anomaly of an additional air compressor (if present)
- **LINE LOW PRESSURE SENSOR:** to signal line low pressure alarm when line pressure is under the normal working range
- **LINE HIGH PRESSURE SENSOR:** to signal line high pressure alarm when line pressure is over the normal working range
- **AIR DRYER SENSOR:** to signal anomaly of air dryer

For both the versions (STANDARD and TOP), in addition to the management of all these sensors, the touch screen controlpanel is able to:

- Display current value coming from of all the analogue sensors available
- Register all these value on a recording device
- Display the number of operating cycles of concentrators
- Display both Real time and Historical trends of the main operative parameters
- Display which column is operative and which valve are open
- Monitor status and alarms conditions of the plant
- Act on the process valves stopping the oxygen supply in case of anomaly
- It allows the **REMOTE REPEATING** of alarm conditions by means of internal relays (free volt contact normally closed.)
- All the alarm set points and the sensors status are **PROGRAMMABLE**
- All the settings are protected by passwords

It is also possible (upon request) to connect the system to external devices (e.g. to monitor the system, reporting alarmsand status conditions, or in case, act on the system) by means of the following additional features :

- PROFINET INTERFACE
- MODBUS TCP/IP PROTOCOL
- PROFIBUS MODULE
- GSM MODULE
- USB PORT

OPTIONAL INTERNAL BATTERY: Delta p may supply, upon request, an internal battery to ensure the continuity of supply to the control panel, in the event of a main power failure.

The control panel is also available in an economic and simplified version, without touch screen display and able to manage the basic functions of the system.

OXGEN 3000 - TOP VERSION

SENSOR	STANDARD	TOP	SENSOR	STANDARD	TOP
% O2 UNIT ANALYZER			SECONDARY SOURCE		
% O2 SOURCE ANALYZER			SECONDARY SOURCE N.2		
AIR VESSEL PRESSURE			RESERVE SOURCE		
O2 VESSEL PRESSURE			AIR COMPRESSOR		
CO ANALYZER			AIR COMPRESSOR N.2 (optional)		
AIR TEMPERATURE			LINE LOW PRESSURE		
CO2 ANALYZER			CO2 ANALYZER		
O2 DEW POINT SENSOR			LINE HIGH PRESSURE		
MASS FLOW METER			AIR DRYER		
Supported			Not supported		

ACCESSORIES (SUPPLIED SEPARATELY) TECHNICAL SPECIFICATIONS

ZIRCONIUM OXIDE % O2 UNIT ANALYZER:	
POWER SUPPLY:	24 VDC
RANGE:	20 - 95 %O2
OUTPUT:	4..20 mA

PARAMAGNETIC % O2 UNIT ANALYZER:	
POWER SUPPLY:	24 VDC
RANGE:	0 - 16 bar
OUTPUT:	4..20 mA

AIR PRESSURE TRANSDUCER	
POWER SUPPLY:	24 VDC
RANGE:	0 - 16 bar
OUTPUT:	0-10V

CO2 ANALYZER:	
POWER SUPPLY:	220 / 110 VAC
RANGE:	0 - 600 ppm
OUTPUT:	4..20 mA

CO ANALYZER:	
POWER SUPPLY:	24 VDC
RANGE:	0 - 50 ppm
OUTPUT:	4..20 mA

MASS FLOW METER	
POWER SUPPLY:	24 VDC
RANGE:	customized on request
OUTPUT:	4..20 mA

DEW POINT SENSOR	
POWER SUPPLY:	24 VDC
RANGE:	-100°C +20 °C
OUTPUT:	4..20 mA

AIR TEMPERATURE TRANSDUCER	
POWER SUPPLY:	24 VDC
RANGE:	-50 °C +150 °C
OUTPUT:	4..20 mA

INTERNAL BATTERY	
POWER SUPPLY:	24 VDC
Ah	customized on request

Further models are available upon request

FULL MEDICAL SUPPLY UNIT WITH OXYGEN CONCENTRATOR

Delta p may supply both the single PSA Oxygen concentrator unit and a full medical Oxygen supply unit complete with secondary source units in a series of different configurations depending on the customer request.
In particular we may supply the following principal components of a typical Full medical supply unit:

- Air Compressors
- Air Dryers
- Activated Carbon Towers
- Air tanks
- O2 Tanks
- Oil removal filters
- Dust filters
- Sterile filters
- Cylinders oxygen supply units

AIR COMPRESSORS GENERAL DESCRIPTION

At the top of a full medical supply unit with oxygen concentrator, an air compressor is required.

Delta p may supply a wide set of screw compressors. All the compressor settings are adjusted by means of an electronic control unit. The control unit allows adjusting the operation parameters of the compressor.

Compressors size will be select depending on the Oxygen concentrator requested specifications. They are equipped with AUTO-RESTART function, to ensure AUTO-RESTART of the system in the event of a main power failure, in accordance to medical standards requirements.

AIR DRYER GENERAL DESCRIPTION

The refrigeration dryers, mounted downstream the air compressor, allows to remove water residual from compressed air, to obtain air with dew point < 3 °C. Delta p may supply a set of refrigeration dryers that ensures the following advantages :

- Energy saving
- Simple and reliable refrigerating circuit
- Constant dew point temperature (< 3 °C) with suddenload variations
- No machine pre-ignition is required
- The dryer can be left on at all times
- High durability.

ACTIVATED CARBON TOWER GENERAL DESCRIPTION

The activated carbon tower is suitable for removal of oil vapour phase contained in compressed air coming from the dryer.
It ensures an outlet air with oil contents < 0,003 mg/m3. The activated carbon tower is composed by a coalescent sub micro filter for oil removal < 0,01 mg/m3, a tower containing activated carbon and a dust filter. In this way the lifetime of activated carbons is guarantee for at least 8000 operating hours.

AIR TANK

The compressed Air, opportunely filtered and dried, coming from activated carbon tower is stored in an air tank.
Delta p may supply many different sizes of tanks depending on the required flow rate.

O2 TANK

Oxygen produced from the concentrator unit must be stored in an O2 tank for the delivery to the user.

Delta p may supply a wide set of O2 Tank of different sizes and with internal treatment dedicated to oxygen use.

DUST AND STERILE FILTERS

Dust filters and sterile filters are mounted on line to protect the user from particulate and from bacteria.

Delta p may supply a wide set of filters of different sizes.

CYLINDER FILLING STATION

Delta p may also supply separately a complete **CYLINDER FILLING STATION** composed by:

- High pressure O2 compressor
- System for cylinders filling including: O2 medicalramps, fittings, medical pigtails for Oxygen use andskid for cylinders placement

CONTAINER AND SKID

Delta p has developed fully equipped medical oxygen auto production systems on container and skid. Those solutions are preassembled, wired and tested ready for the installation onsite (plug and play), without the any renovation in the health care facility building. Availability on request.

CYLINDERS OXYGEN SUPPLY UNIT

To ensure a continuity of supply in case of oxygen concentrator failure, Delta p may supply also a wide set of cylinders oxygen supply units suitable either for the following uses:

- Secondary source of supply
- Third source of supply
- Emergency Reserve source of supply

PRE AND AFTER SALES SERVICE

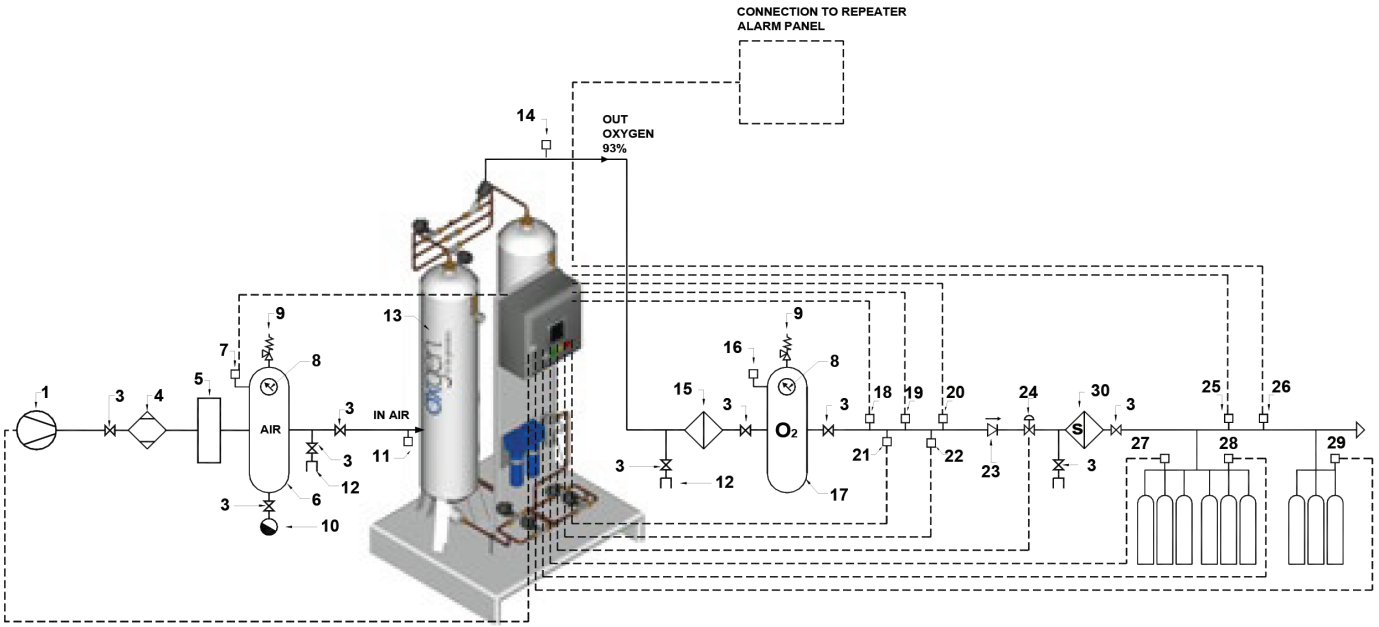
Delta P technologies engineering and after sales services remain at your disposal to help you at each stage of your project, from initial sizing and configuration of the system to the final installation, commissioning and test. Our technicians are available for maintenance 24 hours a day.

*Please contact our sales department for further information

MOST RELEVANT REGULATORY STANDARDS

- ISO 7396-1
- HTM02-01
- Dir. 2014/68/UE PED
- Our oxygen concentrators are CE marked as Medical Devices, according to European Regulation **(EU) 2017/745(MDR),** and are certified as class IIb medical devices
- Quality of produced oxygen is compliant with the monograph Oxygen 93 of European Pharmacopeia

TYPICAL SCHEME OF A COMPLETE SYSTEM WITH CYLINDER SECONDARY SOURCES AND RESERVE - PNEUMATIC SCHEME



LEGEND					
1	AIR compressor + sensor	12	Test point	22	CO2 analyzer
3	Ball valve	13	Oxygen concentrator unit	23	Not return valve
4	Dryer	14	% O2 unit analyzer	24	Line shut off valve
5	Activated carbon tower	15	Dust filter	25	Line low pressure sensor
6	AIR Vessel	16	O2 pressure transducer	26	Line high pressure sensor
7	AIR vessel pressure transducer	17	O2 Vessel	27	Secondary Source + sensor
8	Pressure gauge	18	Dew point sensor	28	Secondary Source 2 + sensor
9	Pressure relief valve	19	% O2 source analyzer	29	Reserve source + sensor
10	Condensate drain	20	Mass flow meter	30	Sterile filter
11	AIR temperature transducer	21	CO analyzer		

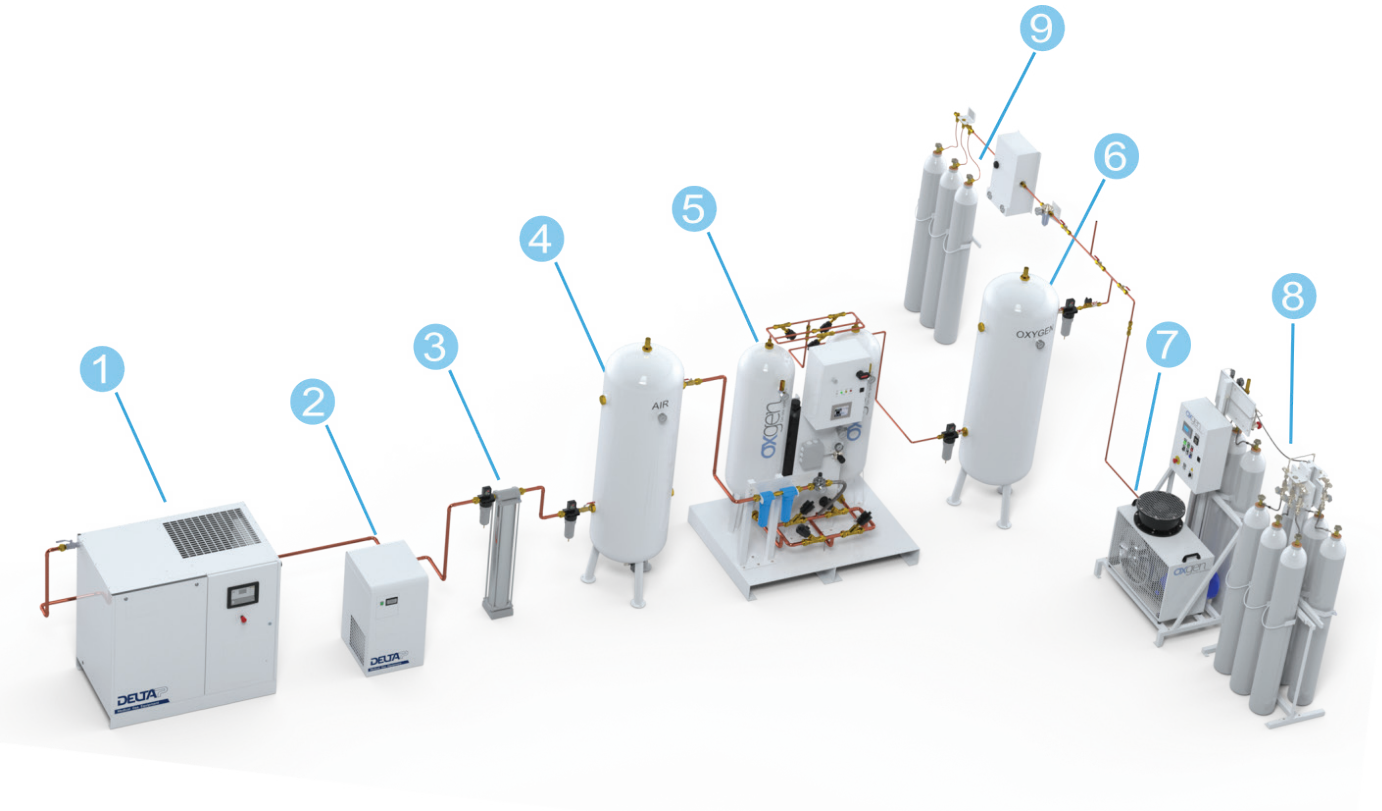
All the sensors shown in the scheme may be connected to the control panel mounted on board the concentrator unit

This scheme is referred to the PSA-OXGEN 3000 TOP VERSION

!!WARNING: Delta p oxygen concentrators have been engineered and manufactured in accordance with ISO 7396-1 and ISO 10083 specific requirements.

Correct installation of an Delta p oxygen concentrator as supply system for use with a medical gas pipeline distribution system in compliance with ISO 7396-1 and ISO 10083 is full responsibility of installer technician under responsible surveillance and guidance of clinical/hospital end user, in accordance with its Operating Management Procedures disciplining correct designing and management of medical oxygen supply and distribution systems in conformity of continuity requirements evaluation objectives for medical oxygen supply.

TYPICAL SCHEME OF A COMPLETE SYSTEM WITH CYLINDER SECONDARY SOURCES AND RESERVE - 3D VIEW



1. Air Compressor
2. Air Dryer
3. Activated Carbon Tower
4. Air receiver
5. PSA – Oxygen 93% Concentrator Unit (primary source of supply)
6. Oxygen 93% Storage Receiver
7. Oxygen Booster
8. Cylinder refilling station
9. Cylinders Emergency Reserve Source (optional)

OXYGEN CONCENTRATORS TECHNICAL DATA SHEET

V	VERSION

S	STANDARD VERSION

T	TOP VERSION

V	Product code	Nm^3/h O_2 @93%	O_2 outlet pressure (bar)	Air inlet max pressure (bar)	Inlet Connection	Outlet Connection	Dimensions (LxWxH) (mm)	Weight (Kg)	Working Temp.(°C)	N2 silencer connection (mm)	Air vessel Volume (L)(*)	O_2 vessel Volume (L) (*)	Electrical Features
S	80001-3000	1,2	5 - 8 bar (adjustable)	10	G 1/2" F	G 1/2" M	1000x800x1950	250 Kg	+10 ÷ +40	Ø60	270 L	500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80001T-3000												
S	80002-3000	2,4	5 - 8 bar (adjustable)	10	G 1/2" F	G 1/2" M	1000x800x1950	300 Kg	+10 ÷ +40	Ø60	500 L	500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80002T-3000												
S	80003-3000	3,5	5 - 8 bar (adjustable)	10	G 1/2" F	G 1/2" M	1100x900x1950	400 Kg	+10 ÷ +40	Ø60	500 L	500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80003T-3000												
S	80004-3000	4,7	5 - 8 bar (adjustable)	10	G 3/4" F	G 1/2" M	1100x900x2000	480 Kg	+10 ÷ +40	Ø60	500 L	500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80004T-3000												
S	80006-3000	7	5 - 8 bar (adjustable)	10	G 3/4" F	G 1/2" M	1500x950x1950	760 Kg	+10 ÷ +40	Ø76	1000 L	500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80006T-3000												
S	80009-3000	10,5	5 - 8 bar (adjustable)	10	G 1" F	G 1/2" M	1550x1000x2200	980 Kg	+10 ÷ +40	Ø200	1000 L	1000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80009T-3000												
S	80012-3000	13,9	5 - 8 bar (adjustable)	10	G 1" F	G 1/2" M	2000x1250x2100	1250 Kg	+10 ÷ +40	Ø200	1500 L	1000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80012T-3000												
S	80015-3000	17,4	5 - 8 bar (adjustable)	10	G 1"1/4 F	G 3/4" M	2000x1250x2100	1550 Kg	+10 ÷ +40	Ø200	2000 L	1500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80015T-3000												
S	80017-3000	19,6	5 - 8 bar (adjustable)	10	G 1"1/4 F	G 3/4" M	2000x1300x2650	1700 Kg	+10 ÷ +40	Ø200	2000 L	1500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80017T-3000												
S	80020-3000	23,3	5 - 8 bar (adjustable)	10	G 1" 1/2 F	G 3/4" M	2000x1350x2500	1860 Kg	+10 ÷ +40	Ø200	3000 L	1500 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80020T-3000												
S	80025-3000	29,0	5 - 8 bar (adjustable)	10	G 1" 1/2 F	G 3/4" M	2000x1350x2850	2150 Kg	+10 ÷ +40	Ø200	3000 L	2000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80025T-3000												
S	80030-3000	35,2	5 - 8 bar (adjustable)	10	G 1" 1/2 F	G 3/4" M	2200x1450x2550	3100 Kg	+10 ÷ +40	Ø200	4000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80030T-3000												
S	80035-3000	40,7	5 - 8 bar (adjustable)	10	G 1" 1/2 F	G 3/4" M	2400x1450x2850	3250 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80035T-3000												
S	80040-3000	46,3	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x2900	3900 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80040T-3000												
S	80045-3000	52,6	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x2900	4100 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80045T-3000												
S	80050-3000	58,1	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x3200	4450 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80050T-3000												
S	80055-3000	64,2	5 - 8 bar (adjustable)	10	G 2" 1/2 F	G 1"1/4 M	2800x1850x3200	6000 Kg	+10 ÷ +40	Ø300	8000 L	4000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80055T-3000												
S	80060-3000	69,9	5 - 8 bar (adjustable)	10	G 2" 1/2 F	G 1"1/4 M	2800x1850x3250	7500 Kg	+10 ÷ +40	Ø300	8000 L	4000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80060T-3000												
S	80065-3000	75,5	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/4 M	2800x1850x3400	8000 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80065T-3000												
S	80070-3000	81,4	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/4 M	2800x1850x3600	8500 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80070T-3000												
S	80075-3000	86,7	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/2 M	2800x1850x3800	9000 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80075T-3000												

OXYGEN CONCENTRATORS TECHNICAL DATA SHEET

V	VERSION	S	STANDARD VERSION	T	TOP VERSION

V	Product code	Nm^3/h O_2 @93%	O_2 outlet pressure (bar)	Air inlet max pressure (bar)	Inlet Connection	Outlet Connection	Dimensions (LxWxH) (mm)	Weight (Kg)	Working Temp.(°C)	N2 silencer connection (mm)	Air vessel Volume (L)(*)	O_2 vessel Volume (L) (*)	Electrical Features
S	80040-3000	46,3	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x2900	3900 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80040T-3000												
S	80045-3000	52,6	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x2900	4100 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80045T-3000												
S	80050-3000	58,1	5 - 8 bar (adjustable)	10	G 2" F	G 1" M	2700x1550x3200	4450 Kg	+10 ÷ +40	Ø300	5000 L	3000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80050T-3000												
S	80055-3000	64,2	5 - 8 bar (adjustable)	10	G 2" 1/2 F	G 1"1/4 M	2800x1850x3200	6000 Kg	+10 ÷ +40	Ø300	8000 L	4000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80055T-3000												
S	80060-3000	69,9	5 - 8 bar (adjustable)	10	G 2" 1/2 F	G 1"1/4 M	2800x1850x3250	7500 Kg	+10 ÷ +40	Ø300	8000 L	4000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80060T-3000												
S	80065-3000	75,5	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/4 M	2800x1850x3400	8000 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80065T-3000												
S	80070-3000	81,4	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/4 M	2800x1850x3600	8500 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80070T-3000												
S	80075-3000	86,7	5 - 8 bar (adjustable)	10	G 3" F	G 1"1/2 M	2800x1850x3800	9000 Kg	+10 ÷ +40	Ø300	10000 L	5000 L	230 / 110 Vac, 50/60 Hz (2,5 A max)
T	80075T-3000												

(*) Air and O2 vessels are supplied separately from the oxygen concentrator
(Volumes indicated in the table are suggested values, they must be changed depending on the design parameters of the system)

Further models are available upon request

!!NOTE: The air inlet flow rate is depending on operating conditions and O2 outlet pressure required. Please contact our technical department for a correct design of the feeding air compressor.

AIR INLET FILTERS FEATURES

Inlet Air Filter n.1	Coalescent sub micro filter, particle removal 0,01 µm and oil content 0,01 mg/m3	**Inlet Air Filter n.2**	Activated carbon absorbent filter, particle removal 0,01 µm and oil content 0,005 mg/m3
!!Important: Air inlet must be according to ISO 8573.1, class 1 solid particulates, class 1 oil and class 4 humidity, free of all contamination (free of ozone)			





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